

Application Serial No.: 10/708,772
Filing Date: 03/24/2004

Reply to Office action of: 08/29/2005
Attorney Docket No.: 2003-044

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application:

Listing of Claims:

1. (Currently amended) A system for use with a implementing a low velocity air burst munition and munition launcher on an existing weapon for munition launching, comprising:

a fuze for detonation of the low velocity air burst a munition that is located on a movable component of the weapon that moves upon munition launching;

a fuze setter located on a non-movable component of the weapon that does not move significantly upon munition launching, for setting a range at which the fuze detonates the low velocity air burst munition; and a flexible data communication cable connecting the fuze setter and the fuze;

wherein the data communication cable fuze calculates a flight time for the range at which the fuze is triggered from a ballistics characteristic for the low velocity air burst munition stored in the fuze transmits detonation control data from the fuze setter to the fuze; and

wherein the data communication cable flexes in compliance with the movable component of the weapon upon launching of the munition.

2. (Currently amended) The system of claim [[1]] 19, wherein the low velocity air burst munition in the munition launcher comprises a plurality of

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Attorney Docket No.: 2003-044

external electrical contacts for electrically connecting the fuze to the fuze setter.

3. (Currently amended) The system of claim [[1]] 2, wherein the ~~munitions~~
~~munition~~ launcher comprises a plurality of chamber contacts for
electrically connecting the external electrical contacts to the fuze setter.

4. (Currently amended) The system of claim [[1]] 2, wherein the plurality
of chamber contacts in the munition launcher are electrically connected
to the fuze setter via [[a]] the data communication cable.

5. (Currently amended) The system of claim 1, wherein the fuze setter
comprises a display means for displaying the range at which the fuze is
triggered.

6. (Currently amended) The system of claim 5, wherein the display [[can
be viewed]] is viewable in daylight.

7. (Currently amended) The system of claim 5, wherein the display [[can
be viewed]] is viewable at night.

8. (Currently amended) The system of claim 7, wherein the display [[can
be viewed]] is viewable by a user wearing a night vision device.

9. (Original) The system of claim 1, wherein the fuze comprises a means by
which the range is manually entered by a user into the fuze setter.

Application Serial No.: 10/708,772
Filing Date: 03/24/2004

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Attorney Docket No.: 2003-044

10. (Currently amended) The system of claim 9, wherein the means by which the range is manually entered [[can be manipulated]] is manipulable by a user wearing gloves.

11. (Canceled)

12. (Currently amended) The system of claim 1, wherein the fuze is triggered upon impact with a stiff obstacle, detonating the ~~low-velocity air burst~~ munition.

13. (Currently amended) The system of claim 1, wherein the fuze is triggered after a predetermined time delay that is in excess of [[the]] a flight time has elapsed, detonating the ~~low-velocity air burst~~ munition.

14. (Currently amended) The system of claim 1, wherein the range is transmitted from the fuze setter to the ~~low-velocity air burst~~ munition by means of magnetic induction.

15. (Currently amended) The system of claim 1, wherein the fuze detonates the explosive material by counting up from a zero time to [[the]] a flight time.

16. (Currently amended) The system of claim 1, wherein the fuze detonates the explosive material by counting down from [[the]] a flight time to zero.

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Filing Date: 03/24/2004

Reply to Office action of: 08/29/2005
Attorney Docket No.: 2003-044

17. (Currently amended) The system of claim 1, wherein the fuze setter comprises ~~one or a plurality of commercially available batteries~~ a battery for [[providing]] supplying power to the fuze setter.
18. (New) The system of claim 1, wherein the movable component of the weapon comprises a munition launcher.
19. (New) The system of claim 18, wherein the non-movable component of the weapon comprises a weapon barrel.

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